

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	("6277271").PN.	USPAT; USOCR	OR	OFF	2006/07/05 09:19
S2	6	("2769760"   "3551328").PN. OR ("6277271").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/05 09:20
S3	1186	208/213,305.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 10:06
S4	1	S3 and (sulfoxides or sulfones) and \$2sorb\$4 and desorb\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 11:49
S6	1942	208/213,305,299,245,250.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 11:34
S8	2	S6 and (sulfoxides or sulfones) and adsorb\$4 and desorb\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 10:35
S9	2	S6 and (sulfoxides or sulfones) and \$2sorb\$4 and desorb\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 10:09
S10	1134	(sulfoxides or sulfones) and \$2sorb\$4 and desorb\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 10:09
S11	706	(sulfoxides or sulfones) and adsorb\$4 and desorb\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 10:11
S12	1075	585/820,826.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 10:12
S13	2929	S6 or S12	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 11:24
S14	4	S13 and (sulfoxides or sulfones) and adsorb\$4 and desorb\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 10:25
S15	4	S13 and (sulfoxides or sulfones) and \$2sorb\$4 and desorb\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 10:13
S16	1	S13 and sulfur-oxidated and adsorb\$4 and desorb\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 10:25
S17	2	sulfur-oxidated and adsorb\$4 and desorb\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 10:26

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S18	1261	sulfur with oxid\$4 and adsorb\$4 and desorb\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 10:26
S19	37	S13 and sulfur with oxid\$4 and adsorb\$4 and desorb\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 10:27
S20	14	S6 and (sulfoxides or sulfones) and adsorb\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 10:38
S21	1	S6 and removal with sulfur-oxidated and (sulfoxides or sulfones) and adsorb\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 10:39
S22	3	S6 and removal with (sulfoxides or sulfones) and adsorb\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 10:40
S23	1	S6 and sulfur-oxidated and (sulfoxides or sulfones) and adsorb\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 10:39
S24	2	removal with sulfur-oxidated and (sulfoxides or sulfones) and adsorb\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 10:39
S25	88	removal with (sulfoxides or sulfones) and adsorb\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 10:39
S26	1	S13 and removal with sulfur-oxidated and (sulfoxides or sulfones) and adsorb\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 10:39
S27	3	S13 and removal with (sulfoxides or sulfones) and adsorb\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 10:40
S28	4	desulfurization with \$2sorb\$4 and (sulfoxide or sulfone) and desorb\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 11:26
S29	4	desulfurization same adsorb\$4 and (sulfoxide or sulfone) and desorb\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 11:27
S31	2385	208/208R,213,305,299,245,250.ccis.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 11:34
S32	3366	S31 or S12	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 11:35
S33	94	S31 and S12	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 11:35

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S34	56	S31 and S12 and adsorbent	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 11:35
S35	10	S31 and S12 and adsorbent and desorbent	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 11:44
S36	2	S32 and adsorbent and desorbent and (desulfurization or sulfur adj removal) and (sulfoxide or sulfone)	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 11:47
S37	5	adsorbent and desorbent and (desulfurization or sulfur adj removal) and (sulfoxide or sulfone)	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 11:47
S38	1	S3 and (sulfoxides or sulfones) with sulfur with oxidated	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 11:49
S39	7	(sulfoxides or sulfones) with sulfur with oxidated	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 12:42
S40	8	(sulfoxides or sulfones) with removal with adsorbent	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 13:25
S41	2	sulfur near oxidated with removal with adsorbent	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 13:29
S42	5	sulfur with removal with adsorbent same desorbent	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 14:07
S43	4	sulfur with removal with adsorbent same desorbent and desorbent with (pentane or hexane or benzene or toluene or xylene)	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 14:08
S44	33	("3182014"   "3450629"   "3725299"   "3922217"   "4225319"   "4234314"   "4430205"   "4831206"   "4831207"   "4831208"   "4835338"   "4952746"   "5082987"   "5109139"   "5164076"   "5171923"   "5212128"   "5220099"   "5264187"   "5271835"   "5306681"   "5454933"   "5730860"   "5750820"   "5792897"   "5807475"   "5843300"   "5849981"   "5912395"   "5935422"   "6126814").PN. OR ("6482316"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/05 16:29
S45	11	S44 and desorbent	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/05 16:29

## EAST Search History

S46	11	S44 and desorbent and adsorbent	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/05 16:30
S47	6	S44 and desorbent and adsorbent and recycle	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/05 16:30
S48	3	("2002/0009404").URPN.	USPAT	OR	OFF	2006/07/11 16:06
S49	3	("2002/0009404").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/11 16:15
S50	115	sulfur with adsorbent and purge and desorb\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/11 16:16
S51	1945	208/213,305,299,245,250.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/11 16:16
S52	1076	585/820,826.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/11 16:16
S53	2932	S51 or S52	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/11 16:16
S54	41	S53 and sulfur with adsorbent and purge and desorb\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/11 16:17
S55	7	S53 and sulfur with adsorbent and purge with (pentane or hexane) and desorb\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/11 16:18
S56	0	split adj shell adj fractionation	USPAT	OR	OFF	2006/07/11 16:23
S57	1	split adj shell adj fractionation	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/11 17:01
S58	271	split with fractionation	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/11 17:02
S59	1	split with shell with fractionation	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/11 17:02
S62	30678	vertical with partition	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/12 11:00
S65	556	vertical with partition and distillation	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/12 11:54
S66	2	("3422005").PN.	USPAT; USOCR	OR	OFF	2006/07/12 11:54